

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
WO 2005/041127 A2

(51) International Patent Classification<sup>7</sup>: G06T 7/00

(21) International Application Number: PCT/EP2004/009789

(22) International Filing Date: 2 September 2004 (02.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 0312386 23 October 2003 (23.10.2003) FR

(71) Applicant (for all designated States except US): THOM-SON Licensing SA [FR/FR]; 46, quai Alphonse Le Gallo, F-92100 BOULOGNE BILLANCOURT (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): VIGOUROUX, Jean-Ronan [FR/FR]; 11A rue d'Echange, F-35000 RENNES (FR). CHUPEAU, Bertrand [FR/FR]; 12 Square de Tanouarn, F-35700 RENNES (FR). STAUDER, Jürgen [DE/FR]; Le Bas Epinay, F-35440 MONTREUIL/ILLE (FR).

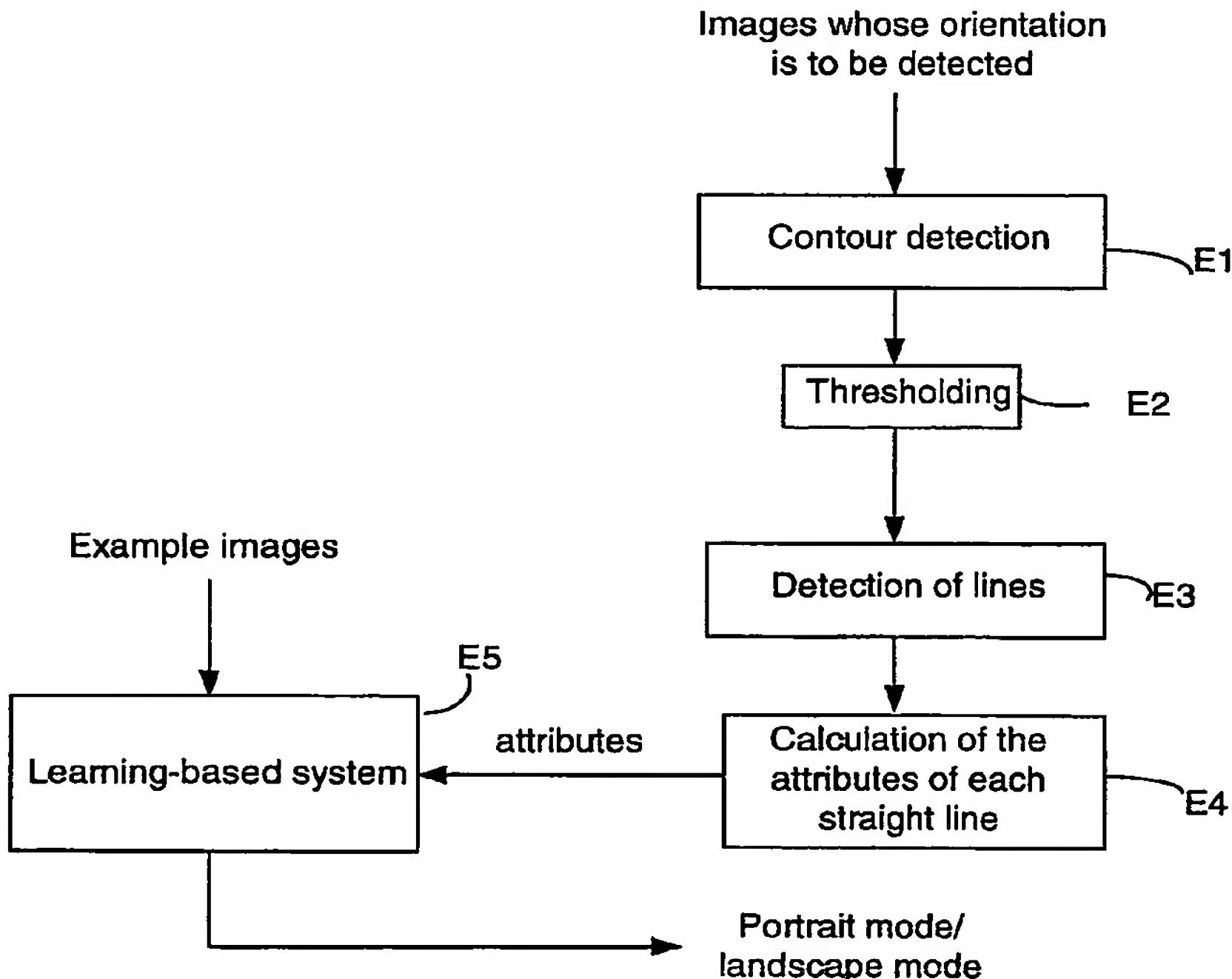
(74) Agent: BENEZETH, Philippe; 46, quai Alphonse le Gallo, F-92100 BOULOGNE BILLANCOURT (FR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: METHOD AND DEVICE FOR DETECTING THE ORIENTATION OF AN IMAGE



WO 2005/041127 A2

(57) Abstract: The invention relates to a method and device for detecting the orientation of an image. The method is such that it comprises the steps of: - detecting (E1, E2, E3) the lines in the image, - calculating (E4), for each line detected, attributes (F) characterizing each line, - detecting (E5) the orientation of the image as a function of the attributes of the set of lines detected. Application to the detection of the orientation of photos taken by a digital camera.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

- *without international search report and to be republished upon receipt of that report*